

Roller bearing, especially for a vehicle drive shaft bearing unit, e.g. in a differential, has rollers of a carbonitrided, quenched and tempered chromium steel with high carbon, silicon and manganese contents

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Abstract of DE19960803

Roller bearing has roller elements made of a carbonitrided, quenched and tempered high carbon chromium steel with high silicon and manganese contents. A novel roller bearing has roller elements made of a steel which contains (by wt.) 0.8-1.5% C, 0.4-1.2% Si, 0.8-1.5% Mn and 0.8-1.8% Cr and which has been subjected to carbonitriding, quenching and tempering so that the surface residual austenite content is 20-50 vol.%. An Independent claim is also included for a vehicle drive shaft bearing unit comprising the above roller bearing.

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